Ocean gales and storms, September, 1925

Vessel	Voyage		Position at time of lowest barometer		Gale	Time of	Gale	Low-	Direc- tion of wind	Direction and force of wind	Direction of wind	Highest force of	Shifts of wind
	From—	То	Lati- tude	Longi- tude	began	lowest barometer		barom- eter	when gale began	at time of lowest barometer	when gale ended	wind and direction	near time of lowest barometer
NORTH ATLANTIC OCEAN			. ,	. ,				Inches					
Saxoleine, Br. S. S. Parthenia, Br. S. S. Baja California, Hond.	England Montreal New Orleans.		57 26 N. 53 34 N. 22 52 N.	11 14 W. 48 31 W. 93 35 W.	1st 2d 5th	12.30 a 4 p., 2d 6 p., 5th	1st 3d 6th	29.80 29.75	W S N	W., 8 S., 9 N., 4	W S SE	W., 8 S., 9 E., 8	Steady. Do. NESE.
S. S. Coldbrook, Am. S. S	do	and return. Havre	41 27 N.	52 55 W.	5th	9 p., 5th	10 p., 5th,	29. 57	ENE	NE., 9	NE	NE., 9	ENENE.
Conrad Mohr, Nor. S. S. Baron Wemyss, Br. S. S. Do	Quebec Qu	Marseille Greenock do	37 35 N. 55 54 N. 56 10 N.	24 48 W. 33 30 W. 13 27 W.	10th 11th 14th	10 a., 12th. 2a., 12th 5p., 15th	13th 13th 15th	29. 87 29. 50 29. 32	SE NE S	SE., 7 N., 9 Calm	wsw	, 8 N., 9 S., 10	Steady. NEN. SCalmSW NW.
Lwow, Pol. Bk. United States, Dan. S. S. George Washington,	Cadiz Oslo do	Rotterdam New York Canal Zone	48 45 N. 58 33 N. 45 09 N.	11 35 W. 17 35 W. 12 55 W.	14th 15th 18th	7a., 14th 10 a., 15th. 8 p., 18th.	15th 18th 19th	29. 42 29. 36 29. 55	SSE SSE WNW.	SSE., 6 SSE., 7 S., 9	WSW W NW	SW., 10 WNW., 9. SW., 11	SSEWNW. SWN.
Nor. M. S. Lwow, Pol. Bk Munchen, Ger. S. S Paris, Fr. S. S	Cadiz New York Havre	Rotterdam Cherbourg New York	50 36 N. 45 36 N. 48 10 N.	3 00 W. 40 19 W. 43 45 W.	19th 18th 19th	6a., 19th Mid., 19th 2a., 20th	19th 23d 11 a., 20th.	29. 26 29. 51 29. 25	ESE SW	SW., 10. WSW., 10. W., 10	WSW NNW. WNW.	SW., 10 WNW., 11 W., 11	ESESWSW SWW. SWW.
Stockholm, Swed. S. S Caronia, Br. S. S Nublan, Br. S. S	New York London Liverpool	Gothenburg New York Philadelphia.	58 02 N. 49 38 N. 50 39 N.	5 18 E. 20 10 W. 20 14 W.	19th 21st 21st	—., 20th 4 p., 21st. Mid., 21st.	20th	29. 24	ESE W SSE	SE., 8 W., 9 WNW., 10.	NW	SE., 9 , 10 , 12	ESESSE. SSEWNNW. WSWW.
Vittorio Emanuele III,	Ireland	Baltimore	52 37 N.	35 29 W.	21st	4 p., 21st	23d	29. 35	NW	NW	sw	NW., 9	wnwsw.
Am. S. S. Hoosac, Br. S. S. Persephone, Danz. M. S. Aral, Br. S. S. De Grasse, Fr. S. S. Nublan, Br. S. S.	Havre Liverpool	Sabine New York dodo Philadelphia.	49 30 N. 55 03 N. 44 46 N. 46 07 N.	17 45 W. 7 00 W. 31 00 W. 56 20 W. 41 42 W.	21st 22d 23d 25th 26th	8 p., 23d 11 p., 25th. Noon, 26th.	26th	29. 06 29. 36 29. 72 29. 74	SESWSW	NW., 5 SW., 9	W	NW., 11 SW., 10 9 NNW., 9	8WW.
Winnebago, Br. S. S.	London	Ga.	}	44 10 W.	28th	{	30th	(SW	SW., 9	ļ	sw., 9	swwsw.
Casper, Am. S. S NORTH PACIFIC	Copenhagen	Norfolk	54 25 N.	35 00 W.	20011	2 p., 2011	30111-1-1	25. 13	D 17	3,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	W)	50100.
OCEAN				ļ									
Boren, Swed. S. S	Philippine Islands.	San Fran- cisco.		135 32 E.	1	5 p., 1st	i			S., 10	1	1	j.
Steelmaker, Am. S. S Salina, Am. S. S Teucer, Br. S. S President Hayes, Am.	Honolulu Los Angeles Japan San Fran-	Iloilo, P. I Manila Hankow	22 03 N. 31 24 N.	144 15 E. 133 28 E. 129 00 E. 128 50 E.	1st 2d 5th 6th	6 p., 6th	7th	29. 45 29. 40	SSE SSE ESE SE	SSW S., 7 S., 11 SSE., 12	8	0., 11	8W.
S. S. M. H. Whittier, Am. S. S.	cisco. Iquique	San Pedro	See text.		8th		9th	129. 75	sw	}	sw	SW., 12	
Do Edgemoor, Am. S. S	San Fran-	Balboa	See text. 8 05 N.	85 15 W.	12th 13th	6 a., 14th 10 p., 13th.	14th	129. 44 29. 54	SW	SW., 11 ENE., 8	SW	8W., 11 ENE., 8	ENEESE.
Betterton, Am. S. S. China Arrow, Am. S. S.	cisco. do Shanghai	Iquique 8an Fran- cisco.	² 16 09 N. 40 38 N.	105 30 W. 125 00 W.	14th 12th	5 a 16th	14th 16th	29, 51 29, 58	NNW.	SW., 8 SE., 8	SE	SW., 8 SE., 8	SESSW.
Waitemata, Br. S. S. Java Arrow, Am. S. S. Havre Maru, Jap. S. S.	Auckland San Pedro Yokohama	Vancouver Woosung San Fran-	31 07 N.	130 18 W. 124 40 W. 132 50 W.	15th 16th 16th		16th 17th 17th	.) 29. 71	WNW.	NW N 8 NNW., 9.	.l N	NW., 9 NE., 9 NNW., 9	WNWNW. NENW. Steady.
Pioneer, U. S. S	Cruising in Alaskan waters.	cisco.	54 57 N.	162 25 W.	17th	6 a., 19th	21st	29. 08	E	S., 1	NW	NW., 10	ses.
West Nomentum, Am. S. S.	Japan	San Fran- cisco.	49 00 N.	168 00 E.	18th	Mid. 18th.	Į.	1	N		l		1
West Jessup, Am. S. S. Africa Maru, Jap. S. S. West Sequana, Am. S. S.	Yokohama	Yokohama Victoria 8an Fran- cisco.	41 15 N.	153 00 E.	18th 18th 28th	8 p., 18th 4 a., 19th 4 a., 29th	. 20th	.) 29. 97	NNW ENE W	ESE., S	SSE	NNW., 10. SE., 8 W., 8	.) E.~SE.
West Jens, Am. S. S	Kobe	Portland	31 48 N.	138 00 E.	29th	11 p., 30th.	Oct. 1.	29, 13	E	S., 12	WNW.	8., 12	SESSW.
SOUTH PACIFIC OCEAN						}			}			}	
Eastern Moon, Am. S. S.	Panama	Sydney, Aus-	31 20 S.	171 50 E.	Aug. 31	3 p., 1st	Sept. 1	29. 35	NNW.	W., 7	sse	NW., 9	NWsw.
SOUTH ATLANTIC OCEAN		tralia.											
Nairnbank, Br. S. S. Lorraine Cross, Am. S. S.	Texas Buenos Aires	Cape Town New Orleans.		17 45 E. 48 16 W.	9th 22d	4 p	9th 23d	29. 88 29. 88	NW	NW., 9 NE., 8	NW WNW.	NW., 9 NW., 8	Steady. NEN.

1 Reading uncorrected.

NORTH PACIFIC OCEAN

By WILLIS EDWIN HURD

A considerable change from the general atmospheric sluggishness of August occurred during September. The great anticyclone of the eastern Pacific, which had persisted for several months with very little disintegration, continued to be fairly well established, though its average pressure was lower than normal. However, cyclonic activities without, and incipient depressions within, its

2 Regular observation only.

area indicated that brisker and more unstable conditions were in operation.

In higher latitudes several active cyclones moved east-ward over the Aleutians, the adjoining waters, and Alaska. They occurred principally during the second decade, and lacked the fluctuating characteristics of the average Low of the region. For the month the pressure over this portion of the sea was considerably above the normal.

Cyclones formed and moved more freely over middle and higher latitudes, and thus gales became more frequent, and the surface air greatly cleared. Consequently fog decreased rapidly from August along the steamship routes, but increased in Alaskan waters, where reports indicate a far greater prevalence than usual. Fog continued relatively frequent along our western

The following table shows the atmospheric pressures for several island and coast stations for September. It will be observed that a rather abnormal gradient existed between Juneau, with a plus pressure departure of 0.17 inch, and Tatoosh Island, with a minus departure of 0.03 inch.

Station	Average pressure	Departure from normal	Highest	Date	Lowest	Date
Dutch Harbor ¹	(2) 2 29. 84 5 29. 97 6 29. 96 29. 97 30. 07 29. 98 29. 93 29. 88	(2) +0. 14 +0. 27 -0. 11 -0. 03 +0. 17 -0. 03 -0. 01 0. 00	(1) 30, 26 30, 42 30, 08 30, 07 30, 38 30, 19 30, 21 30, 04	(2) 4 8th. 24th 18th 16th 28th 30th 29th 7th	28. 98 29. 18 29. 82 29. 84 29. 60 29. 49 29. 76 29. 71	(2) 18th 20th 9th 9th 14th 16th 16th 14th

P. m. observations only.
 Data insufficient.

East winds continued to prevail at Honolulu, and kona winds occurred infrequently. The average velocity was 8.8 miles per hour; the maximum velocity, 30 miles NE. on the 29th. Rainfall continued to be less than the normal

Tropical cyclones in both east and west longitudes were moderately frequent and of dangerous strength. The following article by the Rev. José Coronas, S. J., of the Manila Observatory, describes the movements of such typhoons as occurred in the Far East up to and including September 18. In addition to the steamers mentioned in that report as being heavily involved in the typhoon south of Korea on the 6th, a special report from the British steamer Teucer shows that this vessel experienced considerable difficulty in crossing the Yellow Sea from western Japan to the Yangtse River. captain intended sailing along the northern edge of the storm on the 5th and thus cut ahead of the approaching center, favored by the fresh easterly winds. In the evening, however, he decided this could not be done, and the *Teucer* was headed S. 15° E. at 10 p. m. Throughout the 6th she steamed against the generally southerly winds, encountering gales of force 11, but escaping the storm center. At midnight of the 6th she was able to resume her course in winds that were rapidly hauling to SW. Press reports indicate considerable damage to life and property in Korea resulting from this storm.

A further press report speaks of an intense storm, accompanied by "the worst floods Japan has experienced in 50 years," which swept the Empire, especially the central districts, during the night of the 30th. Our maps show a considerable depression nearing southern Japan on the morning of the 30th, and near Tokyo 24 hours later. From the 28th to the 30th the American steamer West Jena, from Kobe, experienced the strong to hurricane winds of this typhoon, which delayed her within the area bounded by 31° to 34° N., 135° to 138° E. for more than 48 hours.

From the American Tropics come various reports of severe storms this month. On the 8th and 9th the American steamer Mericos H. Whittier, Iquique to San Pedro,

encountered a SSW. to SW. storm of exceptional violence for the region so far south, the vessel being in 4° 23′ N., 92° 13′ W. at 6 a. m. of the 8th. During that day heavy rain squalls, with winds sometimes attaining force 12, were experienced. The gales continued until the 9th, generally from the SW., lowest given pressure, 29.75 (uncorrected), at 6 a. m. of the 9th.

The Mericos H. Whittier again encountered SW. gales on the 12th. These continued until the afternoon of the 14th, but rose to force 11 at 4 p. m. of the 13th, pressure falling to 29.44 (uncorrected), at 6 a. m. of the 14th. Unfortunately the vessel did not record its positions during this storm, but from the dates given, taken in conjunction with its earlier and subsequent known positions, it must have experienced the same cyclone that was encountered by the American steamer Betterton, on the 14th, in 16° 09′ N., 105° 30′ W. The disturbance reported by the American steamer Edgemoor on the 13th, in 8° 05' N., 85° 15' W. (see table), seems hardly to have been identical with the previously men-tioned storm of the same date, though further information may connect the two.

A shipping report from the American steamer West Calera, which left San Pedro on the 21st, bound for Sydney, Australia, states that this vessel, when 1,832 miles from the sailing port, on the 29th, encountered a severe hurricane. No further data concerning the storm are available at this writing.

Waterspout.—American steamer Enterprise, San Francisco toward Hilo: "September 13, 1925. In 35° 18' N., 128° 03′ W., at 5.58 p. m., passed waterspout about 40 feet high traveling NE. 20 miles per hour."

DUST OVER INDIAN OCEAN

Reports of dust at sea come from the following vessels: American steamer Egremont, 13° 32′ N., 43° E. (southern part of Red Sea): 7th: "Thick sand." American steamer President Harrison: "9th, at 9 p. m. When passing Aden 10 miles distant encountered a slight sandstorm, or at least for 30 minutes in cloud of dust. Very little breeze from off shore."— W. E. H.

THREE WELL-DEVELOPED TYPHOONS IN THE FAR EAST DURING SEPTEMBER 1 TO 18

By Rev. José Coronas, S. J. [Weather Bureau, Manila, P. I.]

Our weather maps showed three well-developed typhoons in the Far East during the first half of the month. At the time we are writing this (Sept. 25) there is another big typhoon over 300 miles to the east of central Luzon moving WNW. The U.S. Army transport Thomas and the U.S. Navy transport Chaumont are well under the influence of this typhoon in their way from Guam to Manila. Details concerning this typhoon will be given in our article for next month.

The first typhoon of this month of September had formed already on August 27 to 28 over the western Carolines to the south of Guam, near 145° longitude E. and 10° latitude N. It moved first NNW. and almost north until the early morning of the 30th, passing near Guam to the west in the evening of the 29th. The barometric minimum observed there was 740 mm. (29.13 inches) at 7 p. m., a gale blowing from the E. and SE.

On the 30th and 31st of August the typhoon moved WNW. and W. by N., but on September 1 it inclined again northward, keeping a NW. and NNW. direction

²⁵ days.
And other dates.

²⁶ days.
27 days.
A. m. and p. m. observations.
Corrected to 24-hour mean.